

Claims

I claim:

1 A signal lens system comprising:

a light source;

5 a reflective surface;

a plurality of light transmitting elements arranged adjacent and parallel to each other to form a substantially planar layer; and

10 the light source located between the reflective surface and the planar layer.

2. The signal lens as in claim 1, wherein the light transmitting elements each have a central axis that is inclined to a reflective surface at an angle in the range of 0° to 45°.

3. The signal lens as in claim 2 further comprising a plurality of light sources.

20 4. The signal lens as in claim 3 wherein each light source is aligned with at least one light transmitting element.

5. The signal lens as in claim 4, wherein an outer surface of each light transmitting element is coplanar with each adjacent light transmitting element outer surface.

6. The signal lens as in claim 5, whereby:

a first line drawn between adjacent light transmitting elements when bisected by a second line normal to the first line drawn from a tangent point on a third light transmitting element, the second line having a length d_2 ;

the light transmitting elements each having a diameter d_1 ; and $d_2 < d_1$.

5 7. A lens comprising:

a reflective surface; and

a plurality of light transmitting elements arranged adjacent and parallel to each other to form a bundle describing a substantially planar layer; and

10 the reflective surface arranged substantially parallel to the planar layer whereby a light may be reflected from the reflective surface and received by at least one fiber optic strand.

15 8. A lens comprising:

a plurality of light transmitting elements arranged adjacent and parallel to each other to form a bundle describing a substantially planar layer.

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